



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090373-BA

Mode: Highway

Status: Submitted

NC-55 (Williams Street)

From/Cross Street: US 1

Specific Improvement Type: 1 - Widen Existing Roadway

To: Apex Peakway

Project Category: Regional Impact

Length: 0.35

TIP#: U-2901B

Fully Funded in Draft STIP? No

Cost to NCDOT: \$4,075,000

Description:

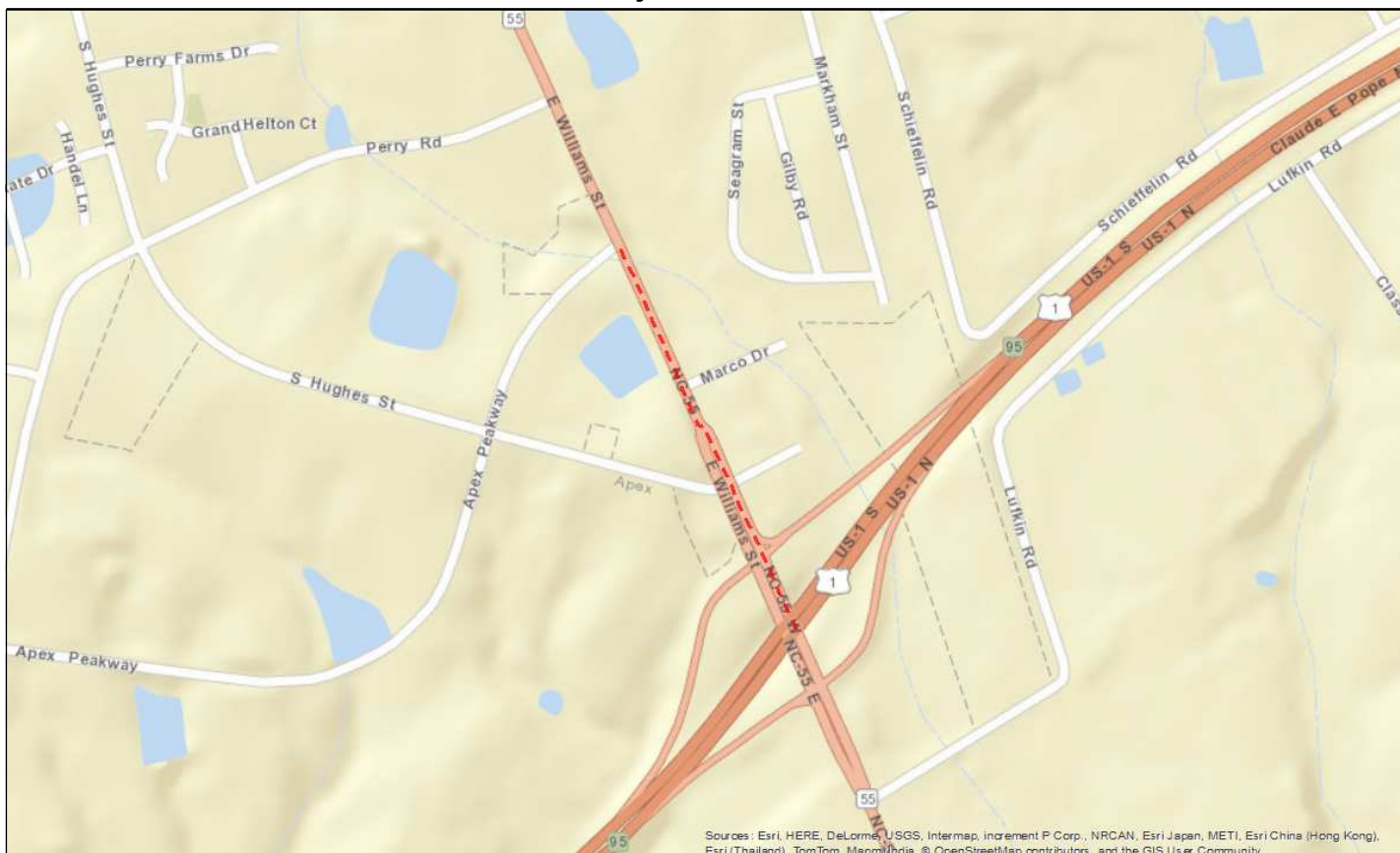
Widen to Multi-Lanes

Division(s): Division 5

County(s): WAKE

MPOS(s)/RPO(s): Capital Area MPO

Project Location



Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, Mapbox, and the OpenStreetMap contributors, and the GIS User Community

Statewide Mobility Total Score: 0

| Quantitative Score | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|---|---|-------------------------------|
| Totals: Weight: 0% Weighted Score: 0 | N/A | N/A |

Regional Impact Total Score: 62.79

| Quantitative Score | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|--|---|-------------------------------|
| Congestion (V/C) (25%) 100.00 | Percent: 15% Points: 54 | Percent: 15% Points: 54 |
| Safety (10%) 80.06 | | |
| [Travel Time] Benefit/Cost (25%) 48.85 | | |
| Accessibility / Connectivity (10%) 13.67 | | |
| Totals: Weight: 70% Weighted Score: 46.59 | | |

Division Needs Total Score: 37.78

| Quantitative Score | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|--|---|-------------------------------|
| Congestion (V/C) (20%) 100.00 | Percent: 25% Points: 0 | Percent: 25% Points: 0 |
| Safety (10%) 80.06 | | |
| [Travel Time] Benefit/Cost (20%) 48.85 | | |
| Totals: Weight: 50% Weighted Score: 37.78 | | |

Project Data ***Existing Conditions**

| | |
|---|--------------------------|
| Existing Cross-Section: | |
| Speed Limit: | 41 |
| Length (miles): | 0.35 |
| Facility Type: | Arterial |
| Access Control: | None |
| Functional Classification: | Other Principal Arterial |
| Terrain Type: | Rolling |
| Lane Width: | 10 |
| Paved Shoulder Width: | 0 |
| Roadway has Curb & Gutter? | No |
| Volume (AADT): | 29000.45 |
| Capacity: | 15800.24 |
| Volume/Capacity Ratio: | 1.84 |
| % Autos: | 94% |
| % Trucks: | 6% |
| Truck Volume: | 1640.05 |
| Crash Density: | 99.72 |
| Crash Severity: | 40.77 |
| Critical Crash Rate: | 99.72 |
| Crash Frequency: | 0 |
| Severity Index: | 0 |
| County Tier Designation: | 3 |
| Non-Interstate STRAHNET Route? | No |
| Average Commuting Time: | 22 |
| Existing Median Type (for Cost Estimation): | Undivided |
| Pavement Condition Rating: | 91 |
| Actual Congested Speed: | 23.19 |
| Travel Time Index: | 1.77 |

Project Benefits

| | |
|--|---|
| Project Cross-Section: | 4C - 4 Lane Divided (23' Raised Median) with Curb & Gutter, Wide Outside Lanes, and Sidewalks |
| Speed Limit: | 41 |
| Length (miles): | 0.35 |
| Facility Type: | Arterial |
| Access Control: | Partial |
| Functional Classification: | Other Principal Arterial |
| Terrain Type: | Rolling |
| DOT Design Lane Width: | 12 |
| DOT Design Paved Shoulder Width: | 4 |
| Travel Time Savings for 30 Years (Total): | 8840180.75 |
| Travel Time Savings for 30 Years (Autos): | 8340245.62 |
| Travel Time Savings for 30 Years (Trucks): | 499935.13 |
| Long-Term Employment: | |
| % Change in Economy: | |
| Provides Direct Connection to Transportation Terminal? | No |
| Does project upgrade how the roadway functions? | No |
| In CTP or LRTP? | No |
| CTP/LRTP Name: | |
| CTP/LRTP Completion Year: | |
| Submitted by: | Division 5 |

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT Online tool and associated databases.

Project Ownership**Division**

| Division | Percent | Regional Impact | Division Needs |
|------------------------------|---------|-----------------|----------------|
| Division 5 | 100% | 54 | 0 |
| | 0% | 0 | 0 |
| | 0% | 0 | 0 |
| TOTAL Division Points | | 54 | 0 |

MPO/RPO

| MPO/RPO | Percent | Regional Impact | Division Needs |
|-----------------------------|---------|-----------------|----------------|
| Capital Area MPO | 100% | 54 | 0 |
| | 0% | 0 | 0 |
| | 0% | 0 | 0 |
| TOTAL MPO/RPO Points | | 54 | 0 |

Project Cost and Source

| | | |
|------------------------|--------------------|----------------------|
| Construction Cost: | \$3,227,000 | Cost Estimation Tool |
| Right-of-Way Cost: | \$757,000 | Cost Estimation Tool |
| Utilities Cost: | \$91,000 | Cost Estimation Tool |
| Total Project Cost: | \$4,075,000 | |
| Other Funding: | \$0 | None |
| Cost to NCDOT : | \$4,075,000 | |